Check No.: Rec'd By: MTG010135 Montana Department of WATER PROTECTION BUREAU **FORM** Notice of Intent (NOI) for Montana Pollution Discharge Elimination NOI System Application for New and Existing Concentrated Animal **Feeding Operations** The Application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO) or Aquatic Animal Production Facility. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete will be returned. You must maintain a copy of the completed application form for your records. Section A - Application Status (Check one): New No prior application submitted for this site. Resubmitted Permit Number: MTG Permit Number: MTG⁰ 1 0 1 3 5 ✓ Renewal Modification PERMITTING & COMPLIANCE DIV Permit Number: MTG Section B - Facility or Site Information (See instruction sheet.): Site Name Weschenfelder Feedlot Inc. Site Location Site # 1 CountyStillwater (/ Nearest City or Town Park City Longitude W 108.55 Latitude N 45.38 Date Facility began operation? 1952 Is this facility or site located on Indian Lands? Yes



Section C - Applicant (Owner/Operator) Information: Owner or Operator Name Henry and Dan Weschenfelder

Mailing Address 10626 C.A. Road

Phone Number 406-373-5741

City, State, and Zip Code Shepherd MT 59079

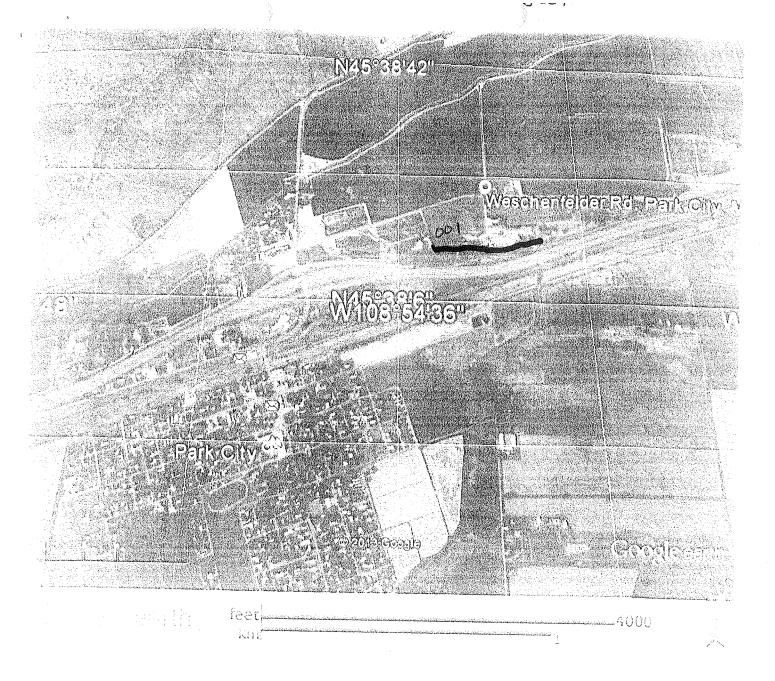
Is the person listed above the owner? Yes

□ No

Status of Applicant *(Check one)* Federal State Private Public Other (specify)

	ang Permus, (Certifications, o	or Approvals: None	
DES MTG010135			RCRA	
) (Air Emissions)			Other	
Permit (dredge & fill))		Other	
n E – Standard Indu	strial Classific	cation (SIC) Co	des:	
		ects the activity o	of project described in Section H.]
	rimary	Code	B. Second	-
Language Control of the Control of t	≂1. 11	2 Code		
· ·	Thira		D. Fourtn	
		3 3		
and Title, or Position T g Address 10626 C.A	Title Dan Wes	schenfelder	Owner/Manager	
tate, and Zip Code She	epherd MT 59	079		Andread Andread State of State

G - Receiving Surfa	ace Waters(s):	See ATT	achment	
Outfall/Discharge Lo				
Outfall Number	Latitude	Longitude	Receiving Surface Waters	
001	N 45.63585	w 108.90889	Italian Ditch	
	-			
003				_
005				4
				-
B depicting the facility on the specific dentify the specific	or activity bound c location of the p	daries, major drair production area, a	nage patterns, and the receiving surface waters, and land application area(s).	l in stated
	Permit (dredge & fill) In E – Standard Indu de at least one SIC code A. P 211 C. IF – Facility or Site Code and Title, or Position Today Address Ad	Permit (dredge & fill) In E – Standard Industrial Classific de at least one SIC code which best reflete A. Primary 211 In E – Standard Industrial Classific de at least one SIC code which best reflete A. Primary 211 In E – Facility or Site Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title Dan West attended to the standard Contact Person and Title, or Position Title, or Position Title Dan West attended to	Permit (dredge & fill) In E – Standard Industrial Classification (SIC) Code at least one SIC code which best reflects the activity of the A. Primary Code 211 2 2 2 3 3 3 4 5 5 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 7 6 7	O (Air Emissions) Other Permit (dredge & fill) Other The E - Standard Industrial Classification (SIC) Codes: de at least one SIC code which best reflects the activity of project described in Section H. A Primary Code B. Second 211 2 C. Third Code D. Fourth The Code D. Fourth The Code D. Fourth The F-Facility or Site Contact Person/Position: The Transport of Title Dan Weschenfelder Owner/Manager The Address 10626 C.A. Road The Address 10



001 - N 45.63585 W 108.90889

Montana Topographic Map Finder

The map is 2.35 miles wide.

Map Controls Choose Image Type O ZoomIn Zoom Factor 40 Topographic Map Refresh O ZoomOut State View New Center Quadrangle Date = 1956 Map Center Coordinates at Red + Datum: NAD83 @ NAD27 Decimal Degrees
Lat 45.63585 Long -108.90889 State Plane E 646073 N 154193 UTM Zone 12 E 662978 N 5055716 US National Grid 12T XR 62978 55716 T25 R23E S29 **Hydrologic Unit:** 10070004 Upper Yellowstone River-Big Lake Basin Download 24K quadrangle: Downsoad 100K quadramole: <u>Billings</u> Click the small map to move the main map center. 28 3357 Park City OLD resolution color photos are available. Legend | Help 3373

Click Here to view other map data for this area.

Search Tools

Select a Map Control, then click on the map



Technical questions about the application can be directed to: nris@mt.qov
Please let us know if you have problems with the Topofinder!!

Section H – Concentration Animal Feeding Operation Characteristics
Waste Production, Storage and Disposal

	Animal type	Number in Open Confinement	Number Housed Under Roof
	Mature Dairy Cows		
	Dai r y Heifers		
	Veal Calves		
Ø	Cattle (not dairy or veal)	700	0
	Swine (55 lbs or over)		
	Swine (55 lbs or under)		
Ø	Horses		
	Sheep or Lambs		
	Turkeys		
	Chickens (broilers)		
	Chickens (layers)		
	Ducks		
	Other (Specify:)		
	Other (Specify:)		
	Other (Specify:)		

	Manure, Litter and/or Wastewater Production and Use. How much manure, litter, and process wastewater is generated annually by the facility?			
Solid (tons	s): 1145 tons	Liquid/Slurry (gallons):	0	
process wa		land under control of the permit applicant are availab the facility? (Note: Do not include setback distances Acres		
How much (tons): 0		ess wastewater is transferred to other persons per year Liquid/Slurry (gallons):0	r? (estimated) Solid	
	Do the waste containme formations? Do the waste containm	ent structures have 4 feet of separation from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond containment structures built within 500 feet of any extension from the pond contains and the	bottom and any ground water?	

L	Type of Containmen	t/Storage	Total Capacity	Units (gallons or tons)	Days of Storage	
	☐ Anaerobic Lagoon					
1		settling	2,164,240	Gallons	180	
 	☐ Storage Pond #2	Holding	1,316,480	Gallons	180	
	☐ Storage Pond #3	- 1				
[[Storage Pond #4					
[[☐ Storage Pond #5					
<u></u>	☐ Above Ground Storage					
ļ	☐ Below Ground Storage					
}	☐ Below Ground Storage	e Tank #2				
	☐ Underfloor Pits					
 	☐ Roofed Storage Shed					*
<u> </u>	Concrete Pad					
 	☐ Impervious Soil Pad					
ļ	Other (Specify:	<u> </u>				-
ם	Other (Specify:)				
Physical	Data for CAFO					
developed One) ☐ Does t Date I ☐ NMP h	mplement a Nutrient Management (NMP). The NMP must be submitted to the Department using the form provided by the Department (Form NMP). Check the box below that applies and provide the required information. The NMP must be developed in accordance with ARM 17.30.1334 and implemented upon the effective date of permit coverage. (Check One) Does the facility have an NMP? Date NMP was developed: 01/30/2009 Date NMP was last modified: NMP has not been prepared; provide detailed explanation below					

Section J - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA1

A.	Name (Type or Print)	
	Dan Manalas	

Dan Weschenfelder

B. Title (Type or Print)

Owner/Manager

C. Phone No.

406-698-8502

D. Signatûre

Wen

E. Date Signed

-30-13

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

> Department of Environmental Quality Water Protection Bureau PO Box 200901 Helena, MT 59620-0901 (406) 444-3080

> > NOV 0 1 2013

DEGMAR PERMITTING & COMPLIANCE DIV.

	AND AND THE AND A		
PERMIT NO.: MTG-010135	Date Rec'd: Amount Rec'd.:	Check No.: Resid By: Unknown So	
	Montana Department of Environmental Quater protection bureau	DEC 10 2013 JAMAR COMPLIANCE DIV	
FORM NMP	Nutrient Manage	ment Plan	
READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp			
Section A – NMP Status: New No prior NMP submitted for this site.			
Resubmitted Previous N	MP found incomplete.	100 Jan	
Modification Change or	update to existing NMP.	JEC COLL	
	version of NMP.	1 产新	
Section B – Facility Information: Facility Name Weschenfelder Feedlot Inc.		A SERVE	
Facility Location Site 1			
Nearest City of Town Park City County Stillwater			
Section C – Applicant (Owner/Operator Information):			
Owner or Operator Name Henry	and Dan Weschenfelder	12/10/13	
Mailing Address 10626 C.A. Ro	ad	1 1, -	
City, State, and Zip code Shephe	Prd M I 590/9		
Facility Phone Number 406-373-	5/41		
Email dcrumham@aol.com			



Section	on D – NMP Minimum Elements:		
ĺ	1. Livestock Statistics		
	Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu. yds. or gal
!	1. 700 beef cattle 500-750 lbs	100	1145 tons
!	2.		
	3.		
ļ	4.		
	5.		
	6.		
	7.		
	8.		
a. De Wet m During pens f This m b. Fre between	nure Handling escribe Manure handling at the factorian and the factorian and the factorian and the pushed up into piles in the factorian and the factorian a	the middle of each pen from Dec 1 September 30th, the wet manure ped into dry piles and hauled out of pens to be hauled out by approximate confinement areas:	1 to April 30 as needed. piles are spread out over the pens to be spread in the fields. Itely 75%.
If s	this manure temporarily stored in so then how and where? manure stored on impervious surf yes, describe type and characterist		ement area? Yes INO

3. Waste Control St	3. Waste Control Structures				
Waste Control Structures	Length (ft.)	Width (ft.)	Depth (ft.)	Volume (cubic ft.	Number of days of
(nam e/type)				or gallons)	storage
1. Settling pond	360	200	4	2164240 ga	180
² ·Holding pond	220	200	4	1316480 ga	180
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					

What is the 24 hr. 25 yr. storm ev	vent at this facility <u>2 3/4"</u>	
	acres. Type of lot (dirt or paved):	dirt
	outside CAFO that enters confinem	ent areas and waste storage,
conveyance, or treatment structu	res: acres.	
What is the annual precipitation	during the critical storage period	3-5 inches
How much freeboard do the pond	d(s) have5 feet	
4. Disposal of Dead Animals.		
Describe how dead animals are didentified Deads are removed from pensup the deads once a week. Cattopiles to decompose.	as soon as possible. Baker Comn	nodities rendering company picks of pick up are placed under manure
		o .
What is the annual precipitation of the Mow much freeboard do the pond. 4. Disposal of Dead Animals. Describe how dead animals are did Deads are removed from pensup the deads once a week. Catt	during the critical storage period d(s) have 5 feet disposed of at this facility: as soon as possible. Baker Comm	3-5 inches

CAFO Nutrient Management Plan

Page **3** of **16**

August 2013

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

Ditches, built up roadways, 2' to 3' berms

6. Prohibiting Animals and Wastes from Contact with State Waters Describe how animals and wastes are prohibited from direct contact with state waters:

Animals: wood and barbed wire fences

Wastes: Lagoons, 30" and wider vegetative strips, built up roadways, ditches and berms.

Yellowstone river is 4 miles away from feedlot facility.

Describe how Chemicals and other contaminants are handled on-site:

Chemicals are ordered on an as needed basis and then applied immediately. No chemicals are stored on the facility site.

7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces,, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area: decreasing open lot surface area; repairing of adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Production Area BMP's

Clean water diversions were described in section D5 and are currently in use Ditches, built up roadways and 2 - 3' berms.

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

never spray irrigating waste on to frozen ground: consulting with the Department prior to applying any			
liquid waste to frozen or si	now-covered gro	ound; applying wastes at agrono	omic rates.
Land Application BMP's			
Buffers	✓ Yes No	Conservation Tillage	✓ Yes No
Constructed Wetlands	Yes ✓ No	Grass Filter	Yes No
Infiltration Field	☐ Yes ✓ No	Residue Management	☐ Yes ✓ No
Set backs	✓ Yes No	Terrace	☐ Yes ✓ No
Other examples Frequency of application and other seasonal varial		ased on annual soil samples, n	nanure tests, crop yield goals
8. Implementation, Opera	tion, Maintenan	nce and Record Keeping – Guid	ance
The permittee is required	to develop guid	ance addressing implementation	n of NMP, proper operation and
maintenance of the facility	y, and record ke	eping as described in Part 2 of	the permit.
Has a guidance document been developed for the facility? Yes No			
	·		
Certify the document add	ress the followin	ng requirements:	
Implementation of the NMP:			
Facility operation and ma	Facility operation and maintenance: Yes No		
Record keeping and repor	rting	☑ Yes ☐ No	
Sample collection and ana	ılysis:	✓ Yes No	
Manure transfer		✓ Yes No	
Provide name, date and location of most recent documentation: Weschenfelder Feedlot Office, 2013.			
If your answer to any of	the above quest	tion is no, provide explanation:	

Section E – Land Application
Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?
Yes If yes, then the information requested in Section E must be provided.
No If no, then provide an explanation of how animal waste at this facility are managed.
spread on fields as needed after harvest of crops.
Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures
- The location of any downgradient sinkholes
- The location of any downgradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:

trucks with spreader boxes mounted on them. MSU extension service and DEQ circular 9

Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

Other (describe)

Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Soil samples collection will occur according the methods in ARM 17.30.1334

Other (describe)

Phosphorus Risk Assessment

The permittee shall access the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Method Used

Indicate which method will be used to determine phosphorus application:

Method A) Representative Soil Sample

Method B – Phosphorus Index

Method A - Representative Soil Sample

- a. Obtain one or more representative soil sample(s) from the field per 17.30.1334
- b. Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm)
- c. Using the results of the Olsen P test, determine application basis according to the Table below.

Soil Test

Olsen P Soil Test Results (ppm)	Application Basis
<25.0	Nitrogen Needs of Crop
25.1 - 100.0	Phosphorus Needs of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application allowed

Method B - Phosphorus Index

- a. Complete a phosphorus Index according to the crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections in Appendix A, please refer to the method as described in Natural Resource Conservation Service (NRCS), Agronomy Technical Note MT-77 (rev3), January 2006.
- b. Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c. Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

The applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ.

- 1. **Linear Approach**. Expresses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. [If a state does not have an N transport risk assessment, the NMP must document any basis for assuming that nitrogen will be fully used by crops.] The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted or any other uses of a field such as pasture or fallow fields.
- The realistic annual yield goal for each crop or use identified for each field.
- The nitrogen and phosphorus recommendations from in ARM 17.30.1334 (technical standard) for each crop or use identified for each field.
- Credits for all residual nitrogen in each field that will be plant-available.
- Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
- All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen).
- The form and source of manure, litter, and process wastewater to be land-applied.
- The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
- The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.
- Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach.
- 2. Narrative Rate Approach. Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. CAFOs selecting the narrative rate approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:
- The maximum amounts of nitrogen and phosphorus that will be derived from all sources of nutrients (pounds/acre for each crop and field).
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted in each field or any other uses of a field such as pasture or fallow fields, including alternative crops if applicable. Any alternative crops included in the NMP must be listed by field, in addition to the crops identified in the planned crop rotation for that field.
- The realistic annual yield goal for each crop or use identified for each field for each year, including any alternative crops identified.
- The nitrogen and phosphorus recommendations from *[the permitting authority to specify acceptable sources]* for each crop or use identified for each field, including any alternative crops identified.
- The methodology (including formulas, sources of data, protocols for making determination, etc.) and actual data that will be used to account for: (1) the results of soil tests required by Parts II.A.4.b and III.A.3.g of this

permit, (2) credits for all nitrogen in the field that will be plant- available, (3) the amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied, (4) consideration of multi-year phosphorus application (for any field where nutrients are applied at a rate based on the crop phosphorus requirement, the methodology must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement), (5) all other additions of plant available nitrogen and phosphorus to the field (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen), (6) timing and method of land application, and (7) volatilization of nitrogen and mineralization of organic nitrogen.

- Any other factors necessary to determine the amounts of nitrogen and phosphorus to be applied in accordance with the Narrative Rate Approach.
- NMPs using the Narrative Rate Approach must also include the following projections, which will not be used by the permitting authority in establishing site-specific permit terms:
- i. Planned crop rotations for each field for the period of permit coverage.
- ii. Projected amount of manure, litter, or process wastewater to be applied.
- iii. Projected credits for all nitrogen in the field that will be plant-available.
- iv. Consideration of multi-year phosphorus application.
- v. Accounting for other additions of plant-available nitrogen and phosphorus to the field.
- vi. The predicted form, source, and method of application of manure, litter, and process wastewater for each crop
 - If the receiving water is on the 303(d) list for nutrients then the narrative rate approach must be used.
 - a. For the Linear Approach the permittee will complete the Nutrient Budget Worksheet, below, for the next
 5 years to which manure or process waste water is or may be applied. A copy of each Nutrient Budget
 Worksheet will be maintained on site, and a copy will be submitted to the Department.

Park City m

Nu	Nutrient Budget Worksheet									
-	Field identification: #1 cove ditchyear: 2013 Crop: CORN SILAGE									
		1 Crop Yield:32 TONS		A7 558						
Pho	Phosphorus index results or Phosphorus application from soil test: 27 PPM									
		of Application:NO MANURE	SPREAD							
Contract Con	The second state of the second state of	ill application occur:N/A								
Nu	ment	Budget	Nitrogen-based Application	Phosphorus- based Application	Source of information					
1		Crop Nutrient Needs, lbs/acre	310 UNITS	99 UNITS	crop removal					
2	(-)	Credits from previous legume crops, lbs/ac	25 units	(from organic	matter)					
3	(-)	Residuals from past manure production lbs/acre	32 units	0						
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, Ibs/acre	0	0						
5	(-)	Nutriante cumuliad in								
6	= Additional Nutrients									
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	N/A	N/A						
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	N/A							
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	N/A no manure spread							
10		Additional Nutrients needed, lbs/acre (calculated above)	253 units							
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	N/A	N/A						
12	= Manure Application No Manure									

Comments:

Soil Type; Medium to Heavey Sand

Western Laboratories, Inc. 211 Highway 95 · P.O. Box 1020 · Parma, ID 83660 800-658-3858 · FAX 208-722-6550 http://www.westernlaboratories.com

Dealer: 1-136

Barry M

Reported: 4-12-2011

Test #: 1

Grower: WesternFulter Feedlot

Field ID: Cove Ditch

Lab #: 14057

AGRICULTURAL SOIL REPORT

AGRICU	LTURA	L SC	DIL R	EP	ORT								14057
ELEM	ENT	AN	ANSWER INTERP S			SHOUL	D BE		ELEMENT	iliqdol-duridanseeuu	ANSWER	INTERP	SHOULD BE
pH-S	Soil	{	3.4		Moderat	tely Ba	sic	Pot	tassium-pp	om	178	Low	300 +
pH-S	MP		•				***************************************	Potassium Bicarb		arb	162	Low	250 +
рН-С	aCl	8	.0						Sulfate-ppm		18	Low	20 +
Soluble	Salts	0	.20	N	Normal < 1.5		ţ	alcium-pp		3791	High	1,800 ±	
% Lir	ne		M		3.1 to 5.			<u></u>	gnesium-p		284	Adequate	250 r
% Organic	Matter		.22	 		/ Low		<u> </u>	odium-ppr	n	19	OK	< 225
Nitrates			8		Low	10 -	35	ţ	Zinc-ppm		1.7	Adequate	1.0 - 3.0
Ammoniu			5		Low	5 4		ļ;	opper-ppn		1.0	Adequate	0.8 - 2.5
Phosphoru		~~~~						j	iganese-pp	om	5	Low	6 - 30
Phos-ppn			27		lequate	25 -		}	lron-ppm		6	Very Low	
	Polay	and the state of t	ogn ates intol	•		50 - 1	100	В	oron-ppm	T	0.9	Adequate	
Texture			It Loa	·	·	_	Р	INDE	ĒΧ		per Acre	luggestions for the whole	in Pounds
Cation Exc				C	18			400		Cr	1	Corn Silage	
	nt Base S	atura		and the second seco	121						eld Goal	30 Tons	Corn Silage 32 Tons
	SES		IDE		YOURS		NO3	ppm	NH4 ppm		st Crop		Silage
Calcium-% of			65-8		105	_ 1 Ft	8	3	5	-	res		0
Magnesium-%			10-2	20	13	_ 2 Ft				Nit	rogen	201	217
Potassium-%	of CEC		2-6	}	2.5	3 Ft			***************************************	<u> </u>	osphate	10	24
Sodium-% of	CEC		< 5	5	.5	Total N PF		 ЭМ	13	Add Phos			
Hydrogen-%	of CEC		< 1	5		Lbs N / Acre			39	for PINDEX		76	
Ratio	Ideal	Y	ours	E	valuation		NAME OF THE PARTY	-commence	lations	Po	tash	141	162
Ca:Mg	6-20:1	,	13:1		OK					1	lfates	9	12
Ca:P pH >7	100:1	14	10:1		High		Wa	atch	Р	ł .	mental	21	q
Ca:P pH <7	40:1		:1		Sulfur Z							~ .	
	P:Zn 15:1 16:1 High Watch Zn Lime												
demous, ww Remarks:	w.weste	гина	porat	orie	s.com/n	nethod:	s.htm				lomite		
											gnesium		
										Zin		0	
e.												2	3
on 40# Phosp	Manganese Copper										1		
								•		Bor			
Sput apply Nitro	ogen.:Tis	sue :	and so	il te	st in-sea	son give	es the	best	results	*************		Ce the laws of	1

'Always practice the laws of Agronomy." John P. Taberna, Soil Scientist

Park City. H

Nu	trient	Budget Worksheet	0040	CODALCILA						
provided assessment of	Field identification: #2 Fox field Year: 2013 Crop: CORN SILAGE									
Ex	Expected Crop Yield:32 TONS									
Pho	Phosphorus index results or Phosphorus application from soil test: 39 PPM									
	Method of Application:NO MANURE SPREAD									
	When will application occur:N/A									
Nu	trient	Budget	Nitrogen-based Application	Phosphorus- based Application	Source of information					
1		Crop Nutrient Needs, lbs/acre	310 UNITS	99 UNITS	crop removal					
2	(-)	Credits from previous legume crops, lbs/ac	25 units	(from organic	matter)					
3	(-)	Residuals from past manure production lbs/acre	120 units	0						
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	165 units	0						
5	(-)	Nutrients supplied in irrigation water, lbs/acre	0	0						
6		= Additional Nutrients Needed, lbs/acre	165 units							
-										
7		Total Nitrogen and Phosphorus in manure, Ibs/ton or Ibs/1000 gal (from manure test)	N/A	N/A						
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	N/A							
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	N/A no manure spread							
10		Additional Nutrients needed, lbs/acre (calculated above)	165 units							
11	(/)	Available Nutrients in Manure, 1bs/ton or 1bs/1000 gal (calculated above)	N/A	N/A						

Comments:

Soil type: mediam to Heavy Clay

Western Laboratories, Inc. 211 Highway 95 • P.O. Box 1020 • Parma, ID 83660 800-658-3858 • FAX 208-722-6550 http://www.westernlaboratories.com

Dealer: 1-130

Barry M

Reported: 4-12-2011

Test #: 1

Grower: WesternFulter Feedlot

Field ID: Fox North South Rows

Lab #: 14050

AGRICUL	TURAL	SC	IL RI	EP(ORT								14059
ELEME	EMENT ANSWER INTERP SHOULD BE						ELEMENT		ANSWER	INTERP	SHOULD BE		
pH - S	oil	8.0 h			Moderately Basic			Pot	assium-pp	m	256	Low	300 +
pH-SI	MP		٠.					Potassium Bicarb		213	Low	250 +	
pH-Ca	pH-CaCl 7.6						na (1900 men'inggaran menganggahan bela	ļ	ulfate-ppm		55	Adequate	20 +
Soluble	Salts	0.	71	N	ormal	< 1	.5		alcium-ppr		4423	High	1,800 +
% Lin	ne		VI	 	3.1 to 5.	***************************************			nesium-pp		653	Very High	250 +
% Organic	Matter	-	16			ow			odium-ppn	n	47	OK	< 225
Nitrates-			80	Λ̈́d	equate	<u> </u>	25		Zinc-ppm		2.0	Adequate	1.0 - 3.0
		Pinnonium punas	***************************************				TO THE PARTY OF TH		opper-ppm		1.4	Adequate	0.8 - 2.5
Ammoniur			6		lequate	***************************************		Man	ganese-pp	m	5	Low	6 - 30
Phosphoru		3	9	Ad	lequate		***************************************	-	lron-ppm		12	Adequate	7+
Phos-ppm	-Bray					50 - 1	100	В	oron-ppm		1.9	High	0.7 - 1.5
Texture		-	lt Loa		Y		P INDEX				Fertilizer Suggestions per Acre for the who		in Pounds e season
Cation Exc				C	20			100	00 Cro		ор	Corn Silage	Corn Silage
	t Base S	atura	<u> </u>		142		T		1	Yield Goal		30 Tons	32 Tons
	SES		IDE		YOURS		NO3	ppm	NH4 ppm	Pa	st Crop	Corn	Silage
Calcium-% of		-	65-8	***********	110	1 Ft	1 Ft 3		6 Ac		res		6
Magnesium-%			10-2		27	2 Ft				Nit	rogen	132	148
Potassium-%	of CEC	***************************************	2-(3	3.3	3 Ft	<u> </u>	***************************************		Ph	osphate		
Sodium-% of	CEC		< :	5	1	Total N P					dd Phos	9.	Н А
Hydrogen-%	of CEC		< 1	5			N/A	***********	108	for PINDEX			•
Ratio	Ideal	Y	ours	E	valuation	1	Recon	ımenc	lations		tash	63	84
Ca:Mg	6-20:1	٤	7:1		OK					L	Ifates		
Ca:P pH >7	100:1	1	13:1		High		W	atch	Р		emental Ifur	28	2
Ca:P pH <7	40:1	ļ	:1							- CONTRACTOR	psum		The state of the s
P:Zn 15:1 20:1 High Watch Zn													
letnods: ww lemarks:	lethods: www.westernlaboratories.com/methods.htm emarks:								<u> </u>	lomite			
										Ma	gnesium		
										Zin		1	2
										 -	nganese	.	1
dd 40# Phos	ld 40# Phosphate as starter if soil temps < 50F at planting							 	pper	o-cusperioretective appropriate the second s	1		
Snlit annly Nitr	plit apply Nitrogen. Tissue and soil test in-season gives the best results									ron			
SOUR CHARLES INTO	OUBIL III	20116	ALICE S	() 16	-<1 in-ce:	っくいい ハバノ	WC INC	12QU	racilite				1

Split apply Nitrogen. Tissue and soil test in-season gives the best results

'Always practice the laws of Agronomy."

John P. Taberna, Soil Scientist

Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

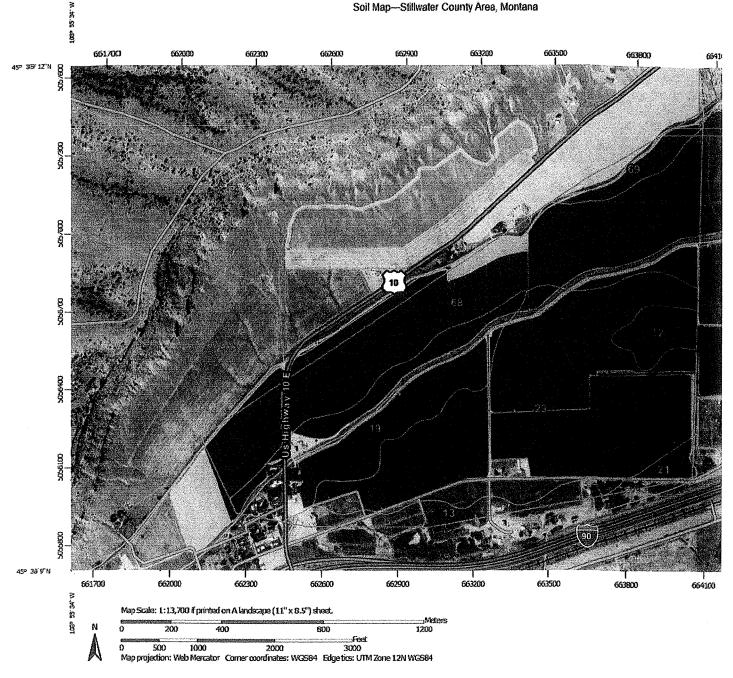
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print) Dan Weschenfelder	DAn	Wischen	Azldee	
B. Tittle (Type or Print) OWNER/MANAGER	C 0	ÜWAN Z.N		c. Phone No. 406-698-8502
D. Signature	Dai	Wearlow	Her	E. Date Signed 12 - 5 - 13

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080





Natural Resources Conservation Service

Web Soil Survey National Cooperative Soil Survey

Map Unit Legend

Stillwater County Area, Montana (MT655)							
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI				
12	Attewan loam, seeped, 0 to 4 percent slopes	12.7	2.9%				
13	Attewan-Beaverell gravelly loams, 0 to 4 percent stopes	20.0	4.6%				
19	Glendive fine sandy leam, 0 to 4 percent slopes	70.9	16.2%				
21	Grail clay loam, 0 to 4 percent slopes	6.7	1.5%				
29	Kobar clay loam, 0 to 4 percent slopes	176.4	40.2%				
68	Yamac loam, 2 to 4 percent slopes	138.0	31.5%				
69	Yamac loam, 4 to 8 percent slopes	13.7	3.1%				
Totals for Area of Interest	en e	438.5	100.0%				

MAP LEGEND

Area of interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Lines Soil Map Unit Points

Special Point Features

Blowout

(v)

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

(i) Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

् Sinkhole

§ Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Water Features

Streams and Canals

Transportation

+++ Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Background



Aerial Photography

MAP INFORM

The soil surveys that comprise your A0I

Please rely on the bar scale on each ma measurements,

Source of Map: Natural Resources Co Web Soil Survey URL: http://websoilst Coordinate System: Web Mercator (El

Maps from the Web Soil Survey are basi projection, which preserves direction and distance and area. A projection that pres Albers equal-area conic projection, shoul calculations of distance or area are requ

This product is generated from the USDA the version date(s) listed below.

Soil Survey Area: Stillwater County Ar Survey Area Data: Version 7, Dec 5, 2

Soil map units are labeled (as space allow or larger.

Date(s) aerial images were photographer 2011

The orthophoto or other base map on what compiled and digitized probably differs from agery displayed on these maps. As a soft map unit boundaries may be evident.